0900 04-10-01

(2)

OIPE

RAW SEQUENCE LISTING DATE: 03/30/2001
PATENT APPLICATION: US/09/804,472 TIME: 11:17:56

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\03302001\I804472.raw

4 <110> APPLICANT: SHAO, Wei et al.
6 <120> TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,
7 NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,
8 AND USES THEREOF
10 <130> FILE REFERENCE: CL001163
C--> 12 **<140> CURRENT APPLICATION NUMBER: US/09/804,472**
C--> 12 **<141> CURRENT FILING DATE: 2001-03-13**
12 <160> NUMBER OF SEQ ID NOS: 6
14 <170> SOFTWARE: FastSEQ for Windows Version 4.0
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 3625
18 <212> TYPE: DNA
19 <213> ORGANISM: Human
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23 cttgcttgct gcagcaggga tggaagaaat gtcactttct ttttaagcta gcaagctttt 120
24 tctttttctt tttcttcttc tatttaaaaa ttctaatcat ggatgcttct tccgaccctt 180
25 atttgcctta tgacgggggа ggagacaata ttcccctgag ggaattacat aaaagaggaa 240
26 ctcattatac aatgacaaat ggaggcagca ttaacagttc tacacattta ctggatcttt 300
27 tggatgaacc aattccaggt gttggtacat atgatgattt ccatactatt gattgggtgc 360
28 gagaaaaatg taaagacaga gaaaggcata gacggatcaa cagcaaaaag aaagaatcag 420
29 catgggaaat gacaaaaagt ttgtatgatg cgtggtcagg atggctagta gtaacactaa 480
30 caggattggc atcaggggca ctggccggat taatagacat tgctgccgat tggatgactg 540
31 acctaaagga gggcatttgc cttagtgcgt tgtggtacaa ccacgaacag tgctgttggg 600
32 gatctaatga aacaacattt gaagagaggg ataaatgtcc acagtggaaa acatgggcag 660
33 aattaatcat aggtcaagca gagggtcctg gttcttatat catgaactac ataatgtaca 720
34 tcttctgggc cttgagtttt gcctttcttg cagtttccct ggtaaaggta tttgctccat 780
35 atgcctgtgg ctctggaatt ccagagatta aaactatttt aagtggattc atcatcagag 840
36 gttacttggg aaaatggact ttaatgatta aaaccatcac attagtcctg gctgtggcat 900
37 caggtttgag tttaggaaaa gaaggtcccc tggtacatgt tgcctgttgc tgcggaaata 960
38 tcttttccta cctctttcca aagtatagca caaacgaagc taaaaaaagg gaggtgctat 1020
39 cagctgcctc agctgcaggg gtttctgtag cttttggtgc accaattgga ggagttcttt 1080
40 ttagcctgga agaggttagc tattattttc ctctcaaaac tttatggaga tcatttttg 1140
41 ctgctttagt ggctgcattt gttttgaggt ccatcaatcc atttggtaac agccgtctgg 1200
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47 gaaatgacat gaatgccagt aaaattgtcg atgacattcc tgatcgtcca gcaggcattg 1560
48 gagtatattc agctatatgg cagttatgcc tggcactcat atttaaaatc ataatgacag 1620
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50 cgatcgcagg aaggattgtg gggattgcgg tggagcagct tgcctactat caccacgact 1740
51 ggtttatctt taaggagtgg tgtgaggtcg gggctgattg cattacacct ggcctttatg 1800
52 ccatggttgg tgctgctgca tgcttaggtg gtgtgacaag aatgactgtc tccctggtgg 1860
53 ttattgtttt tgagcttact ggaggcttgg aatatattgt tcccccttatg gctgcagtca 1920
54 tgaccagtaa atgggttgga gatgcctttg gcagggaagg catttatgaa gcacacatcc 1980

RAW SEQUENCE LISTING DATE: 03/30/2001
PATENT APPLICATION: US/09/804,472 TIME: 11:17:56

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\03302001\I804472.raw

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56 ctgacgttat gagacctcga aggaatgatc ctcccttagc tgtcctgaca caggacaata 2100
57 tgacagtgga tgatatagaa aacatgatta atgaaaccag ctacaatgga tttcctgtca 2160
58 taatgtcaaa agaatctcag agattagtgg gatttgccct cagaagagac ctgacaattg 2220
59 caatagaaag tgccaggaaa aaacaagaag gtatcgttgg cagttctcgg gtgtgttttg 2280
60 cacagcacac cccatctctt ccagcagaaa gtcctcggcc attgaagctt cgaagcattc 2340
61 ttgacatgag ccctttaca gtgacagacc acaccccaat ggagattgtg gtggatattt 2400
62 tccgaaagct gggactgagg cagtgccttg taactcacaa tgggcgcctc cttggcatta 2460
63 taacaaaaaa agatatcctc cggcatatgg cccagacggc aaaccaagac cccgcttcaa 2520
64 taatgttcaa ctgaatctca cagatgagga gagagaagaa acggaagagg aagtttattt 2580
65 gttgaatagc acaactcttt aacctgaggg agtcatctac tttttttcc tcctttacaa 2640
66 aaaaagaaag gaaatataaa agccgggttt ttgcaacatg gtttgcaaat aatgctggtg 2700
67 gaatggagga gttgtttggg gagggaaagg agagagaagg aaaggagtga ggtatttccc 2760
68 gtctaacaga aagcagcgta tcaactccta ttgttctgca ctggatgcat tcagctgagg 2820
69 atgtgcctga tagtgcaggc ttgcgcctca acagagatga cagcagagtc ctcgagcacc 2880
70 tggcctgttg ctccaacatt gcaaagacac attatcagtc cctatttcta gagggattac 2940
71 tttgaattga gccatctata aaactgcaag gtcttgccct ttttttaat caaaactgtt 3000
72 ctgtttaatt catgaattgt atagttaagc attacctttc tacattccag aagagccttt 3060
73 atttctctct ctctctctct ctctctctct ctctctactg agctgtaaca aagcctcttt 3120
74 aaatcggtgt atccttttga agcagtcctt tctcatattg agatgtactg tgattttact 3180
75 gaggtttcat cacaagaagg gagtgtttct tgtgccatta accatgtagt ttgtaccatc 3240
76 actaaatgct tggaacagta cacatgcacc acaacaaagg ctcatcaaac aggtaaagtc 3300
77 tcgaaggaag cgagaacgaa atctctcatt gtgtgccgtg tggctcaaaa ccgaaaacaa 3360
78 tgaagcttgg ttttaaagga taaagttttc ttttttgttt tcctctcaga ctttatggat 3420
79 aatgtgaccg ggtcttatgc aaattttcta tttctaaaac tactactatg atatacaagt 3480
80 gctgttgagc ataattaaat aaaatgctgc tgctttgaca gtaaagagaa aaaaaaaaaa 3540
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82 aaaaaaaaaa aaaaaaaaaa aaaaa 3625
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85 <211> LENGTH: 791
86 <212> TYPE: PRT
87 <213> ORGANISM: Human
89 <400> SEQUENCE: 2
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91 1 5 10 15
92 Asn Ile Pro Leu Arg Glu Leu His Lys Arg Gly Thr His Tyr Thr Met
93 20 25 30
94 Thr Asn Gly Gly Ser Ile Asn Ser Ser Thr His Leu Leu Asp Leu Leu
95 35 40 45
96 Asp Glu Pro Ile Pro Gly Val Gly Thr Tyr Asp Asp Phe His Thr Ile
97 50 55 60
98 Asp Trp Val Arg Glu Lys Cys Lys Asp Arg Glu Arg His Arg Arg Ile
99 65 70 75 80
100 Asn Ser Lys Lys Lys Glu Ser Ala Trp Glu Met Thr Lys Ser Leu Tyr
101 85 90 95
102 Asp Ala Trp Ser Gly Trp Leu Val Val Thr Leu Thr Gly Leu Ala Ser
103 100 105 110
104 Gly Ala Leu Ala Gly Leu Ile Asp Ile Ala Ala Asp Trp Met Thr Asp
105 115 120 125

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PATENT APPLICATION: US/09/804,472 TIME: 11:17:56

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\03302001\I804472.raw

```
106 Leu Lys Glu Gly Ile Cys Leu Ser Ala Leu Trp Tyr Asn His Glu Gln
107     130                 135                 140
108 Cys Cys Trp Gly Ser Asn Glu Thr Thr Phe Glu Glu Arg Asp Lys Cys
109 145                 150                 155                 160
110 Pro Gln Trp Lys Thr Trp Ala Glu Leu Ile Ile Gly Gln Ala Glu Gly
111                 165                 170                 175
112 Pro Gly Ser Tyr Ile Met Asn Tyr Ile Met Tyr Ile Phe Trp Ala Leu
113             180                 185                 190
114 Ser Phe Ala Phe Leu Ala Val Ser Leu Val Lys Val Phe Ala Pro Tyr
115         195                 200                 205
116 Ala Cys Gly Ser Gly Ile Pro Glu Ile Lys Thr Ile Leu Ser Gly Phe
117     210                 215                 220
118 Ile Ile Arg Gly Tyr Leu Gly Lys Trp Thr Leu Met Ile Lys Thr Ile
119 225                 230                 235                 240
120 Thr Leu Val Leu Ala Val Ala Ser Gly Leu Ser Leu Gly Lys Glu Gly
121                 245                 250                 255
122 Pro Leu Val His Val Ala Cys Cys Cys Gly Asn Ile Phe Ser Tyr Leu
123             260                 265                 270
124 Phe Pro Lys Tyr Ser Thr Asn Glu Ala Lys Lys Arg Glu Val Leu Ser
125         275                 280                 285
126 Ala Ala Ser Ala Ala Gly Val Ser Val Ala Phe Gly Ala Pro Ile Gly
127     290                 295                 300
128 Gly Val Leu Phe Ser Leu Glu Glu Val Ser Tyr Tyr Phe Pro Leu Lys
129 305                 310                 315                 320
130 Thr Leu Trp Arg Ser Phe Phe Ala Ala Leu Val Ala Ala Phe Val Leu
131                 325                 330                 335
132 Arg Ser Ile Asn Pro Phe Gly Asn Ser Arg Leu Val Leu Phe Tyr Val
133             340                 345                 350
134 Glu Tyr His Thr Pro Trp Tyr Leu Phe Glu Leu Phe Pro Phe Ile Leu
135         355                 360                 365
136 Leu Gly Val Phe Gly Gly Leu Trp Gly Ala Phe Phe Ile Arg Ala Asn
137     370                 375                 380
138 Ile Ala Trp Cys Arg Arg Arg Lys Ser Thr Lys Phe Gly Lys Tyr Pro
139 385                 390                 395                 400
140 Val Leu Glu Val Ile Ile Val Ala Ala Ile Thr Ala Val Ile Ala Phe
141                 405                 410                 415
142 Pro Asn Pro Tyr Thr Arg Leu Asn Thr Ser Glu Leu Ile Lys Glu Leu
143             420                 425                 430
144 Phe Thr Asp Cys Gly Pro Leu Glu Ser Ser Ser Leu Cys Asp Tyr Arg
145         435                 440                 445
146 Asn Asp Met Asn Ala Ser Lys Ile Val Asp Asp Ile Pro Asp Arg Pro
147     450                 455                 460
148 Ala Gly Ile Gly Val Tyr Ser Ala Ile Trp Gln Leu Cys Leu Ala Leu
149 465                 470                 475                 480
150 Ile Phe Lys Ile Ile Met Thr Val Phe Thr Phe Gly Ile Lys Val Pro
151                 485                 490                 495
152 Ser Gly Leu Phe Ile Pro Ser Met Ala Ile Gly Ala Ile Ala Gly Arg
153             500                 505                 510
154 Ile Val Gly Ile Ala Val Glu Gln Leu Ala Tyr Tyr His His Asp Trp
```

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PATENT APPLICATION: US/09/804,472 TIME: 11:17:56

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\03302001\I804472.raw

```
155         515                 520                 525
156 Phe Ile Phe Lys Glu Trp Cys Glu Val Gly Ala Asp Cys Ile Thr Pro
157     530                 535                 540
158 Gly Leu Tyr Ala Met Val Gly Ala Ala Ala Cys Leu Gly Gly Val Thr
159 545                 550                 555                 560
160 Arg Met Thr Val Ser Leu Val Val Ile Val Phe Glu Leu Thr Gly Gly
161                 565                 570                 575
162 Leu Glu Tyr Ile Val Pro Leu Met Ala Ala Val Met Thr Ser Lys Trp
163             580                 585                 590
164 Val Gly Asp Ala Phe Gly Arg Glu Gly Ile Tyr Glu Ala His Ile Arg
165         595                 600                 605
166 Leu Asn Gly Tyr Pro Phe Leu Asp Ala Lys Glu Glu Phe Thr His Thr
167     610                 615                 620
168 Thr Leu Ala Ala Asp Val Met Arg Pro Arg Arg Asn Asp Pro Pro Leu
169 625                 630                 635                 640
170 Ala Val Leu Thr Gln Asp Asn Met Thr Val Asp Asp Ile Glu Asn Met
171                 645                 650                 655
172 Ile Asn Glu Thr Ser Tyr Asn Gly Phe Pro Val Ile Met Ser Lys Glu
173             660                 665                 670
174 Ser Gln Arg Leu Val Gly Phe Ala Leu Arg Arg Asp Leu Thr Ile Ala
175         675                 680                 685
176 Ile Glu Ser Ala Arg Lys Lys Gln Glu Gly Ile Val Gly Ser Ser Arg
177     690                 695                 700
178 Val Cys Phe Ala Gln His Thr Pro Ser Leu Pro Ala Glu Ser Pro Arg
179 705                 710                 715                 720
180 Pro Leu Lys Leu Arg Ser Ile Leu Asp Met Ser Pro Phe Thr Val Thr
181                 725                 730                 735
182 Asp His Thr Pro Met Glu Ile Val Val Asp Ile Phe Arg Lys Leu Gly
183             740                 745                 750
184 Leu Arg Gln Cys Leu Val Thr His Asn Gly Arg Leu Leu Gly Ile Ile
185         755                 760                 765
186 Thr Lys Lys Asp Ile Leu Arg His Met Ala Gln Thr Ala Asn Gln Asp
187     770                 775                 780
188 Pro Ala Ser Ile Met Phe Asn
189 785                 790
192 <210> SEQ ID NO: 3
193 <211> LENGTH: 65359
194 <212> TYPE: DNA
195 <213> ORGANISM: Human
197 <220> FEATURE:
198 <221> NAME/KEY: misc_feature
199 <222> LOCATION: (1)...(65359)
200 <223> OTHER INFORMATION: n = A,T,C or G
202 <400> SEQUENCE: 3
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204 taaaaataat tcaaatatgg ctacaaaact tttacaatat gaagcattgt cagtatttat 120
205 tttaccggga ggatttcccc catcagtgag tgctgactgt cattttcatt ctttatgatc 180
206 aagttgtaga tcaggaaaaa caagttaaga gagtgcctac aaataccggg aaaacttgtg 240
207 gatagatttt cattttttat gtaaagacat ataagaacat gaatggtata aaaacaaaat 300
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RAW SEQUENCE LISTING DATE: 03/30/2001
PATENT APPLICATION: US/09/804,472 TIME: 11:17:56

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\03302001\I804472.raw

208 cctttataaa tgccatacaa ttatatattt agaaaaatta tatggtggta aaacatataa 360
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210 gctttccttg tttaaaaaaa ctattggctc agtgtgcagg aaggagcata ggagaaaaaa 480
211 ttgccaagaa tatttgaaaa atacagaaaa taaagaaaaa aatcacctac tatcctatca 540
212 aaaattttaa tagctagaat caggataaga tagaatattc ctgtggcagt aattctagtc 600
213 tatattcctt tcctggaacc ctgtctccca aatttcaggt gagattttat aagaagctct 660
214 gtttatctga gatttaaaat ataaaaactt gatttaacct atacagtttt ttaaaaagac 720
215 cctaaataag taaaatttag tactccacaa attgaagaga atttctctct tctctttact 780
216 gccctctgag ttttctcttt ccttctctca cctccaattt tcatgtaaac actttcagtt 840
217 cgagtggacc ttagagattg tctcattcaa tactttagga aaacaaattt tatagaaccc 900
218 ttgagttctg tggaattgct tctaatgaac aacacctttt gttgttgttg ttgtttagtg 960
219 acactgtgta acaggcattt caggaggaga atctcccagt ctagaggaat cctctcagag 1020
220 gtagctataa aatattgaac tctgatcttc aataagcatt gtgcggtttt tgtttttgtt 1080
221 tttaatgaca gttttaaaca agaaagttgc tttatttctg aacttcataa aaatttctat 1140
222 taaagagaca atttctgaat tttataacaa tttctagaac agttgagtac ctcactttga 1200
223 gacacatttt tgctaaaagt taaaaacaca aaacccttat gagataaaat aggaagctag 1260
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225 atagtaaagt tacttagtac gttgatagtt ttctttctcc tcaaaagcta caatgtctta 1380
226 ctagctagtt ccttcaagaa aggaaacaag aagccgctgg aggagattgg tgagtgggat 1440
227 aaaacactat tcaactcttc agttattcgg tttttaaatc ctcaatgaaa ggctgctgta 1500
228 ttatagagta ttttttttt attttaata gacttagaac caagtttctt gagaaacctt 1560
229 tggcatattg tagttttttt atggctatga ctcacatgac attactgtat aaaactagta 1620
230 cattctctcg taaaaccaca caaacttact agagtgctgc tctcattttt ctacattaga 1680
231 aatgaaaaag ggcattgtct gcattcaaaa tttccttttt acatctctgt attacttttt 1740
232 ccccttttata tttatcttaa aaccaaaaga aataatgttt ctattgtttt actgtagtta 1800
233 ccactgatgc taccgaagct gtattgtgag tgtttcaaaa ttctcaaacc agttttgtgt 1860
234 gttgtacttg gagcttagtc attgtcatac gtagcaggac ctgattaaga aggctgtgcc 1920
235 gcctctaagc cttgctagat tgtagccact agcaaccagg ctgcaataat ttccctttga 1980
236 tgacatcatc cactgtggaa gaacccagtt gcttcagcga gtcgaactac agttttaacc 2040
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246 agaaaactta catttccttt aatttacaca gagaaatcag gtgcctatgt accattatat 2640
247 tttagctgct gccaattacc atgtagattt tacaccacaa agtaaattta tagcaaaagc 2700
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256 atgtttttct aatataatta gcctgcttta tttaaaatat actttgtgtt ctgataacac 3240

FYI.

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY DATE: 03/30/2001
PATENT APPLICATION: **US/09/804,472** TIME: 11:17:57

Input Set : **A:\Seqlist.txt**
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L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:284 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:285 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:286 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:287 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:421 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:422 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:423 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:424 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:426 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:427 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
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L:429 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
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L:602 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:603 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:604 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:605 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:606 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:607 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:608 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:609 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:610 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:611 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:612 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:613 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:614 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:615 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:616 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:617 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

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Input Set : A:\Seqlist.txt
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L:679 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:680 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:681 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:682 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3